

XtendFlex Soybean Herbicide Recommendations without Dicamba (Brooklyn, WI 2022)

Trial Information

Trial Sponsor(s): Bayer

Objective: Evaluate herbicide programs to provide recommendations for XtendFlex soybean weed management in areas or situations where dicamba is not used

Crop: XtendFlex Soybean

Variety: AG20XF1

Weed species (pressure): glyphosate-R waterhemp(moderate-high)
velvetleaf (moderate)
fall panicum (low-moderate)

Herbicide Application(s): PRE – 5/24
POST – 6/29 (V4 soybean)

For the full report see trial #22-BRO-SB06 in the [2022 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON



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| Trt # | Herbicide (rate acre ⁻¹) | Injury (%) | | Waterhemp (%) | | | | Velvetleaf (%) | | | Fall Panicum (%) | | | Yield ^b bu acre ⁻¹ | |
|---|---|-----------------------|-------|---------------|-------|-------------|-------|----------------|------|-------------|------------------|------|-------|---|---|
| | | 6/29 | 7/13 | 6/29 | 7/13 | 7/26 | 9/29 | 6/29 | 7/13 | 9/29 | 6/29 | 7/13 | 9/29 | | |
| 1 | Untreated Check | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 c | |
| Two-Pass – PRE (5/24) fb POST (6/29) | | POST | | | | POST | | | | POST | | | | | |
| 2 | Warrant (48 oz) + Mauler (8 oz) fb Roundup PM3 (30 oz) + Warrant Ultra (48 oz)* | 2.3 | 9.8 | 55 | 50 | 67 | 58 | 82 | 100 | 100 | 74 | 100 | 100 | 65 ab | |
| 3 | Warrant (48 oz) + Mauler (8 oz) fb Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)* | 2.0 | 6.8 | 60 | 90 | 92 | 93 | 77 | 100 | 100 | 75 | 100 | 100 | 71 a | |
| 4 | Warrant (48 oz) + Mauler (8 oz) fb Liberty (32 oz) + Warrant (48 oz)* | 2.5 | 7.3 | 59 | 85 | 89 | 87 | 83 | 100 | 99 | 64 | 100 | 100 | 68 ab | |
| 5 | Warrant (48 oz) + Mauler (8 oz) fb Liberty (32 oz) + Warrant Ultra (48 oz)* | 2.3 | 14.0 | 60 | 90 | 92 | 93 | 87 | 100 | 92 | 73 | 100 | 96 | 71 a | |
| 6 | Warrant Ultra (48 oz) fb Roundup PM3 (30 oz) + Warrant (48 oz)* | 2.3 | 6.3 | 79 | 80 | 83 | 79 | 82 | 100 | 100 | 81 | 100 | 100 | 65 ab | |
| 7 | Warrant Ultra (48 oz) fb Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)* | 2.3 | 7.0 | 88 | 97 | 97 | 96 | 82 | 100 | 99 | 83 | 100 | 100 | 68 ab | |
| 8 | Fierce EZ (6 oz) fb Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)* | 2.8 | 6.0 | 85 | 98 | 97 | 97 | 94 | 100 | 100 | 93 | 100 | 100 | 65 ab | |
| 9 | Fierce EZ (6 oz) fb Roundup PM3 (30 oz) + Warrant Ultra (48 oz)* | 2.3 | 12.8 | 88 | 81 | 83 | 83 | 94 | 100 | 100 | 94 | 100 | 100 | 67 ab | |
| 10 | Valor EZ (2 oz) + Mauler (8 oz) fb Roundup PM3 (30 oz) + Liberty (32 oz) + Warrant (48 oz)* | 2.3 | 6.8 | 67 | 95 | 95 | 93 | 87 | 100 | 100 | 81 | 100 | 100 | 67 ab | |
| 11 | Valor EZ (2 oz) + Mauler (8 oz) fb Roundup PM3 (30 oz) + Warrant Ultra (48 oz)* | 2.0 | 10.0 | 64 | 58 | 73 | 65 | 95 | 100 | 100 | 76 | 100 | 100 | 61 b | |
| | | LSD ($\alpha=0.10$) | ns | 1.6 | 10 | 10 | 4 | 8 | 9 | ns | 3 | 8 | ns | 2 | 9 |
| | | p value | 0.491 | <.001 | <.001 | <.001 | <.001 | 0.014 | 1.00 | 0.018 | <.001 | 1.00 | 0.097 | <0.001 | |

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

*All POST applications included liquid AMS at 2.5% v/v.

XtendFlex Soybean Herbicide Recommendations without Dicamba (Brooklyn, WI 2022)

Plot pictures taken on 6/28

35 days after the PRE application

The day before the POST application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

35 days after PRE (6/28)

Untreated Check

0%



35 days after PRE (6/28)

PRE: 48 fl oz Warrant + 8 fl oz Mauler

59%



**35 days after PRE (6/28)
PRE: 48 fl oz Warrant Ultra**

84%



35 days after PRE (6/28)

PRE: 6 fl oz Fierce EZ

87%



35 days after PRE (6/28)

PRE: 2 fl oz Valor EZ

66%



XtendFlex Soybean Herbicide Recommendations without Dicamba (Brooklyn, WI 2022)

Plot pictures taken on 7/13

50 days after the PRE application
14 days after the POST application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

50 days after PRE (7/13)

Untreated Check

0%



14 days after POST (7/13)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

50%



14 days after POST (7/13)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

90%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



14 days after POST (7/13)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 32 fl oz Liberty + 48 fl oz Warrant + AMS

85%



14 days after POST (7/13)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 32 fl oz Liberty + 48 fl oz Warrant Ultra + AMS

90%



14 days after POST (7/13)

PRE: 48 fl oz Warrant Ultra

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant + AMS

80%



14 days after POST (7/13)

PRE: 48 fl oz Warrant Ultra

97%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ fb

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS

98%



14 days after POST (7/13)

PRE: 6 fl oz Fierce EZ fb

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

81%



14 days after POST (7/13)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

95%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



14 days after POST (7/13)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

58%



XtendFlex Soybean Herbicide Recommendations without Dicamba (Brooklyn, WI 2022)

Plot pictures taken on 7/26

63 days after the PRE application
27 days after the POST application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

63 days after PRE (7/26)
Untreated Check

0%



27 days after POST (7/26)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

67%



27 days after POST (7/26)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS

92%



27 days after POST (7/26)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 32 fl oz Liberty + 48 fl oz Warrant + AMS

89%



27 days after POST (7/26)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 32 fl oz Liberty + 48 fl oz Warrant Ultra + AMS

92%



27 days after POST (7/26)

PRE: 48 fl oz Warrant Ultra

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant + AMS

83%



27 days after POST (7/26)

PRE: 48 fl oz Warrant Ultra

97%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



27 days after POST (7/26)

PRE: 6 fl oz Fierce EZ *fb*

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS

97%



27 days after POST (7/26)

PRE: 6 fl oz Fierce EZ fb

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

83%



27 days after POST (7/26)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

95%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



27 days after POST (7/26)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

73%



XtendFlex Soybean Herbicide Recommendations without Dicamba (Brooklyn, WI 2022)

Plot pictures taken on 9/29

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

Soybean harvest (9/29)

Untreated Check

0%



Soybean harvest (9/29)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

58%



Soybean harvest (9/29)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

93%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



Soybean harvest (9/29)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 32 fl oz Liberty + 48 fl oz Warrant + AMS

87%



Soybean harvest (9/29)

PRE: 48 fl oz Warrant + 8 fl oz Mauler *fb*

POST: 32 fl oz Liberty + 48 fl oz Warrant Ultra + AMS

93%



Soybean harvest (9/29)
PRE: 48 fl oz Warrant Ultra
POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant + AMS

79%



Soybean harvest (9/29)

PRE: 48 fl oz Warrant Ultra

96%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ *fb*

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS

97%



Soybean harvest (9/29)

PRE: 6 fl oz Fierce EZ fb

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

83%



Soybean harvest (9/29)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

93%

POST: 30 fl oz Roundup PM3 + 32 fl oz Liberty + 48 fl oz Warrant + AMS



Soybean harvest (9/29)

PRE: 2 fl oz Valor EZ + 8 fl oz Mauler *fb*

POST: 30 fl oz Roundup PM3 + 48 fl oz Warrant Ultra + AMS

65%

